



CCOPA

**the PBS archive add on
for the costing-based
profitability analysis**

Manual Part C

- Display Transactions -**
- and**
- Application Programs –**

Compatible with

- SAP R/3 4.x
- SAP ERP 2004
- SAP ERP 6.0

SAP[®] Certified
Powered by SAP NetWeaver[®]

November 5, 2012

© 2003 - 2012 PBS Software GmbH

Schwanheimer Strasse 144a

64625 Bensheim, Germany

Phone: +49 - 6251 - 174 0

Fax: +49 - 6251 - 174 174

email: info@pbs-software.com

Internet: www.pbs-software.com



PBS archive add ons[®] is a registered trademark of PBS Software GmbH, Bensheim.

SAP, R/3, SAP ERP, SAP NetWeaver, ABAP and others are registered trademarks of SAP AG, Walldorf/Baden.

Acrobat Reader is a registered trademark of Adobe Systems Incorporated.

Introduction to the PBS ILM Concept Information Lifecycle Management

Information Lifecycle Management (ILM) means the administration of information related to the time when it is used, taking into account its total costs and compliance. A conclusive, efficient ILM concept must, as a result, control data growth, manage retention rules, and also ensure compliant data storage. Furthermore, an easy access to archived data is decisive and, for example, its transfer during internal and external audits.

PBS ILM Concept

PBS software provides existing SAP customers extensive solutions to put into practice the requirements that were described above for a stringent and successful ILM concept. PBS is considered as an expert for complex, integrated data accesses to archived and database data and meanwhile, also to data that is located on decommissioned SAP systems. In addition to classical SAP data archiving, SAP BI-specific nearline storage is also supported.

PBS archive add ons®

PBS archive add ons always rely on SAP archiving having been carried out successfully. This is the basis for a permanently high-performing SAP system. In principle, you can indeed retain posted documents in the SAP database for a very long time due to a large database capacity. Depending on the document volume, this may result, however, in massive performance losses and, sooner or later, heavily increasing operation costs. The daily backup becomes difficult for large data stocks, for example.

A convenient display and evaluation of archived transaction data – as the SAP user is used to for database data – can often only be carried out in a very restricted manner using SAP standard means depending on the application module. This is particularly the case for large archive data stocks. The PBS archive add ons can be used here. They can be provided for nearly all SAP modules and release levels, and start with a "C" (for Complete) in their description. For example, PBS archive add on CCOPA for the SAP module COPA.

Using the PBS archive add ons you can quickly and easily access your archived data even after data archiving during your day-to-day business. The unrestricted data access is realized by an intelligent indexing concept. It extends the SAP archive infrastructure components and integrates itself optimally with SAP archiving. Archive data that has been indexed can still be provided after a release upgrade immediately, without restrictions, and without migration effort. The PBS archive index is stored in sequential files of the SAP file system in the same way as the SAP archive data. Afterwards, you can access the archive data online via the familiar transactions. The SAP user can display the data from the SAP database and the archive data simultaneously via the PBS archive add on index. For the user, it seems as though the archived data is still in the SAP database. The deep integration of the PBS transactions also enables direct navigation to subsequent and previous documents both within the indexed SAP module as well as to linked documents from other SAP modules. This applies not only for resident but also without restrictions for archived data. The benefit for the user increases the more PBS archive add ons are used.

The potential benefits of the ILM concept raises substantially if you take into account the savings that result from the SAP mirror systems. There are usually at least two of them meaning that the saved disk storage can be tripled by performing data archiving. Thus, time is saved for the data backup.

Table of Contents

1	Introduction	6
2	Display Transactions	7
2.1	Overview	7
2.2	Transaction "Line item display"	9
2.3	Transaction "Line item display Actual"	12
2.4	Transaction "Execute profitability report"	16

1 Introduction

The **PBS archive add ons** are constructed in modular form and cover the application modules FI, SD, MM, CO etc. with a special program package for exactly this application. You can easily see from the name which *PBS archive add on* belongs to which SAP module: CFI, CSD, CMM, CCO etc. All *PBS archive add ons* have in common that they can be easily installed in the SAP R/3 system via the SAP transport utilities "tp" and "SAINT". For installation details of the *PBS archive add ons* please see the specific installation manual (manual part A).

This manual on the display transaction and application programs was written to support you when using the *PBS archive add on CCOPA*. Please see the administration manual (part B) regarding construction and administration of the *PBS archive add on CCOPA*.

The modular user manual of each *PBS archive add on* is composed of partial manuals:

- Part A: Installation
- Part B: Administration, Archive Construction and Maintenance
- Part C: Application Programs / Transactions
- Part D: Migration Support R/2 => R/3 (if available)

There are additional manuals for the PBS utilities: Conversion Tool, Archive Browser, Translation Tool.

Should you have questions regarding the installation of the *PBS archive add ons* or if you have problems when installing the software please call directly the **Service Hotline of PBS Software GmbH**:

Phone: +49 - 6251 - 174 110
Fax: +49 - 6251 - 174 174
email: hotline@pbs-software.com

Release Compatibility

The **PBS archive add on CCOPA** discussed in this manual runs with the basis programs of SAP AG, D-69190 Walldorf/Baden, system R/3, **releases 4.0B and 4.5B (in the 4.0B and 4.5B versions the line items are included but not the object level), 4.6C, R/3 Enterprise, ECC 5.0 and ECC 6.0.**

2 Display Transactions

2.1 Overview

The *PBS archive add on CCOPA* provides the user in the online operation with actual and plan line items as well as data of the segment level of the costing-based profitability analysis which have been removed from the R/3 database by archiving with transaction SARA. Version 1.0 provides the following display transactions reading not only data from the operative tables of the SAP system but also data from the PBS archive.

PBS 4.X	SAP	Transaction description
/PBS/KE24	KE24	Line items display - Actual
/PBS/KE25	KE25	Line items display - Plan
/PBS/KE23N	KE23N	CO-PA line item display
/PBS/KE30	KE30	Execute profitability report

Table 1: Transactions of the *PBS archive add on CCOPA* and the SAP original transactions.

Integration

All transactions displaying archived data are analogue to the SAP transactions. This guarantees that the users can work immediately with the archive transactions without special training. Please see table 1 for the names of the archive transactions. The transactions can be called by indicating the PBS transaction code.

Line items from the *PBS archive add on CCOPA* are marked with the symbol '*' in all transactions.

You do not have to know the names of the transactions as all PBS transactions can be called via the menu.

If you use more than one PBS program package, you can start for the releases 4.0 to 4.5 via the main menu transaction **/PBS/MAIN**, from there via function ⇒ Accounting ⇒ Controlling you get to the sub-menu for the control of the *PBS archive add on CCOPA*. If you only use the PBS archive CCOPA you can start directly via the menu transaction **/PBS/CCOPA**. From 4.6 you can integrate the main menu **/PBS/PBS** and the menu **/PBS/CCOPA** (functions of the costing-based profitability analysis) in the existing activity group (4.6B) or roles (from 4.6C).

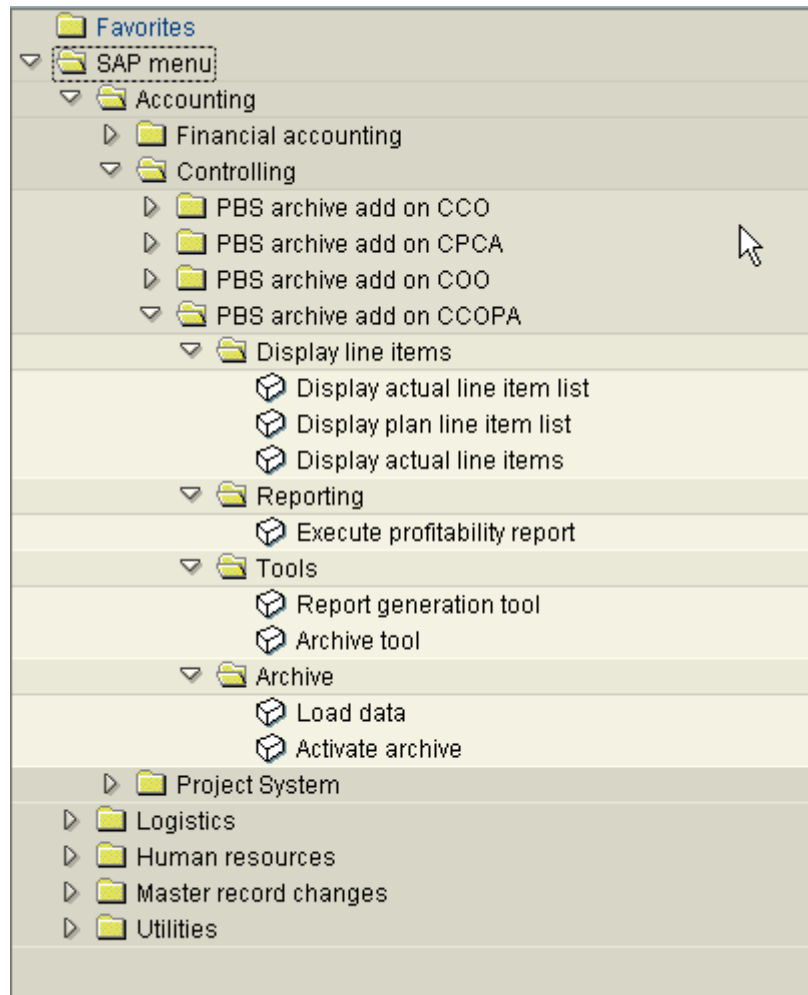
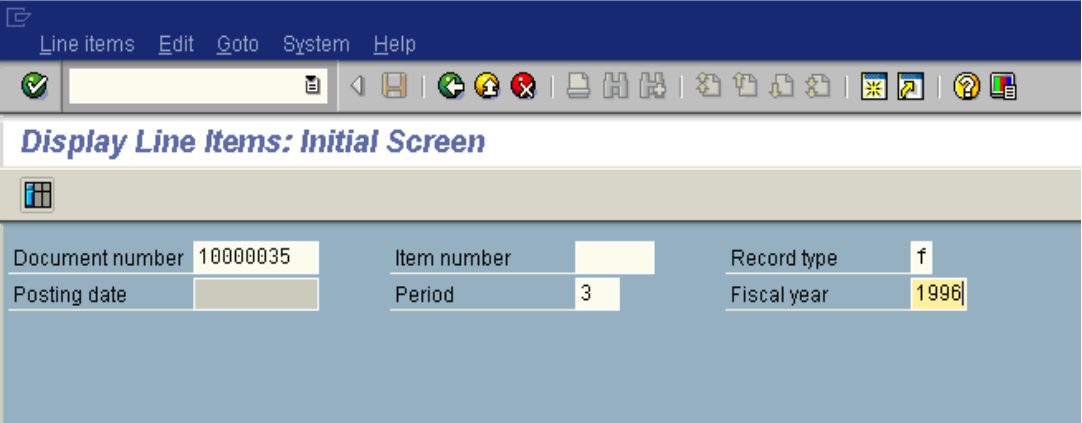


Diagram 1: Main menu

2.2 Transaction "Line item display"

In this section we discuss the example of the archive transaction /PBS/ KE23N, displaying the single actual line item in detail.

/PBS/KE23N Diagram 2 shows the request screen of the transaction /PBS/KE23N.



Display Line Items: Initial Screen

Document number	10000035	Item number		Record type	f
Posting date		Period	3	Fiscal year	1996

Diagram 2: Initial screen of transaction /PBS/KE23N

If you enter the document number, transaction type, period and fiscal year of the requested line item, you can directly get to the display of the line item data (Diagram 2) from there.

Display Line Items

Integration

Document number: 100000335 Item number: Record type: F A *

Posting date: 05.03.1996 Period: 3 Fiscal year: 1996

Characteristics Value fields Origin data Administrative data

Organizational units

Company Code	1000	IDES AG
Sales org.	0001	Sales Org. Germany
Distr. channel	01	Direct Sales

Customer-related chars

Customer	4999	Hallmann Anlagenbau GmbH
Country	DE	Germany
Customer class.	02	Btw. 0,5 - 1,5 mill.
Customer group	01	Industrial customers
Industry	MBAU	Manufacturing
Sales district	000005	Central
Sales group	003	
Sales office	0002	

Product-related chars

Product	P-109	Pump cast steel IDESNORM 170-230
Plant	1000	Werk Hamburg
Division	01	Pumps

Rows 1 to 20 from 56

Diagram 3: Detailed display of a line item

Clicking on the left mouse button on the corresponding tab either the characteristics, value fields, origin data or administrat. data are displayed. The field 'A' contains the PBS archive indicator "*" for line items from the archive.

Integration

Clicking on button 'Integration' further information for the line item is displayed (Diagram 4). After selecting a row you can go to the corresponding transaction. In contrast to the SAP original, archived data from other applications can be displayed as far as they can be accessed via the PBS archive add on.

The screenshot shows the 'Display Line Items' window with the 'Integration' tab selected. The window displays various data fields organized into sections:

- Document number:** 100000335
- Item number:** (empty)
- Record type:** F A *
- Posting date:** 05.03.1996
- Period:** 3
- Fiscal year:** 1996

Below these fields are four tabs: Characteristics, Value fields, Origin data, and Administrat.data. The 'Characteristics' tab is active, showing the following data:

Organizational units	
Company Code	1000 IDES AG
Sales org.	0001 Sales Org. Germany
Distr. channel	01 Direct Sales
Customer-related chars	
Customer	4999 Hallmann Anlagenbau GmbH
Country	DE Germany
Customer class.	02 Btw. 0,5 - 1,5 mill.
Customer group	01 Industrial customers
Industry	MBAU Manufacturing
Sales district	000005 Central
Sales group	003
Sales office	0002
Product-related chars	
Product	P-109 Pump cast steel IDESNORM 170-230
Plant	1000 Werk Hamburg
Division	01 Pumps

At the bottom, there are icons for navigation and a status bar indicating 'Rows 1 to 20 from 56'.

Diagram 4: Selection screen for further information

If the required entry fields cannot be filled in completely in the selection screen, you can go to transaction /PBS/KE24 with the left button at the top. You are able to display a list of line items with specific characteristics via various selections with this transaction. By a double-click on a line item of this list you get to the display of the line item data.

2.3 Transaction "Line item display Actual"

The archive transaction /PBS/KE24 is discussed as way of an example in this paragraph. This transaction displays actual line items of the costing-based profitability analysis in a list according to selected criteria. The transaction /PBS/KE25 'line item - plan' is similar and therefore, a separate display is not needed. As the handling is analogue to the SAP transaction KE24 we only point out the differences.

/PBS/KE24

Diagram 5 shows the request screen of transaction /PBS/KE24.

Display Actual Line Items: Initial Screen

Selection criteria

Currency type				
Record type		to		
Period/year		to		
Document number		to		
Date created		to		
Reference document number		to		
Entered by		to		
Sender cost center		to		
Cost element		to		
CO order		to		
Sales order		to		
Company code		to		
Customer		to		
Product		to		
Billing date		to		

Additional selections...

Layout

Layout

Mode of access

Read acc. to current structure ☐

Read as posted ☒

Execute in background

1=DB+Arch. 2=DB, 3=Arch

Diagram 5: Initial screen of transaction /PBS/KE24

Besides the standard delimitations, the screen mask contains a further delimitation specific for the PBS archive add on.

Select Data Source The transaction /PBS/KE24 can display data from the archive and the SAP database. To select the data source please use the parameter '1=DB+Arch., 2=DB (= database), 3=Arch (= archive)'. By entering the corresponding number 1, 2 or 3 the actual line items are displayed either from the R/3 database, the archive or both data sources. For example, if you search for all operations you should qualify this parameter with '3' as you can thus save database accesses to the SAP files and reduce the general load on the system.

List If all delimitations have been entered correctly, the system provides a list displaying the requested line items. Diagram 6 shows such a list.

Display Actual Line Items: List

Plan/act.ind. F
Record type 003.1996 005.1996
Period/year 01.08.1996 01.09.1996
Created on KRAUSKOPF
Created by B0
Currency type
Number of line items 38
Mode of access Read as posted
Op. concern currency EUR

Curr.	C....	Period	Doc. no.	Item no.	Created on	Ref.doc.no	Rf.itm	Created by	CoCd	Sender Cctr	Cost element	Curr.	A
EUR	B0 F	003.1996	100004096		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004104		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004111		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004117		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004123		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004129		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004136		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004143		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004150		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004157		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004164		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004171		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	003.1996	100004178		08.08.1996			KRAUSKOPF	3000			USD	*
EUR	B0 F	004.1996	100004097		08.08.1996			KRAUSKOPF	3000			USD	
EUR	B0 F	004.1996	100004105		08.08.1996			KRAUSKOPF	3000			USD	
EUR	B0 F	004.1996	100004118		08.08.1996			KRAUSKOPF	3000			USD	
EUR	B0 F	004.1996	100004124		08.08.1996			KRAUSKOPF	3000			USD	
EUR	B0 F	004.1996	100004130		08.08.1996			KRAUSKOPF	3000			USD	

Diagram 6: List of transaction /PBS/KE24.

The list screen is analogue to the transaction KE24, however, bears in addition the archive indicator. You can select the fields to be displayed

in the list via the menu option 'Settings -> Layout'.

Archive indicator You can see from the last column if the displayed line item is contained in the PBS archive add on or in the SAP database. In the first case the last column contains the symbol '*'; otherwise it is empty. Diagram 6 displays the data from the database and from the PBS archive add on. For the display of the archive indicator it must be contained in the layout.

FI/CO documents Clicking on the button 'FI/CO documents' you will get a selection screen with the document numbers from the accounting belonging to the line item on which is the cursor. By clicking a number you will get to the corresponding PBS transaction so that the document can be displayed if it is already in the PBS archive add on.

Line item display By moving the cursor to a line item and pressing the left mouse key twice, you branch off to the display of the complete line item (transaction /PBS/KE23N). In contrast to the SAP original the field 'A' containing a '*' for line items from the *PBS archive add on CCOPA* is on the right at the top and it is possible to branch off into the PBS transactions with button 'Integration' and selecting the requested additional information, thus also displaying data from other PBS archive add ons.

2.4 Transaction "Execute profitability report"

The archive transaction /PBS/KE30 is discussed in this paragraph which enables you to execute profitability reports. Before a report is started for the first time via /PBS/KE30 it must be regenerated via transaction /PBS/KE30. If transaction KE30 as well as transaction /PBS/KE30 are to be used we recommend making a copy of the reports, which are also to be executed via transaction /PBS/KE30 (for example copy report IDES-010 on PBS_IDES-010) and only using this copy in transaction /PBS/KE30.

From SAP release 6.0 a prefix, with which the report names of the /PBS/KE30 reports begin, can be indicated for each operating concern in table /PBS/CCOPA_KONVE via transaction SM30. Once this has been done for an operating concern, only the reports corresponding to this naming convention are displayed when starting transaction /PBS/KE30. This prevents the reports not intended for /PBS/KE30 from being used inadvertently. If no entry exists for an operating concern in table /PBS/CCOPA_KONVE, the reports for transaction KE30 are also displayed as previously. An example is described in chapter 7 of the administration manual.

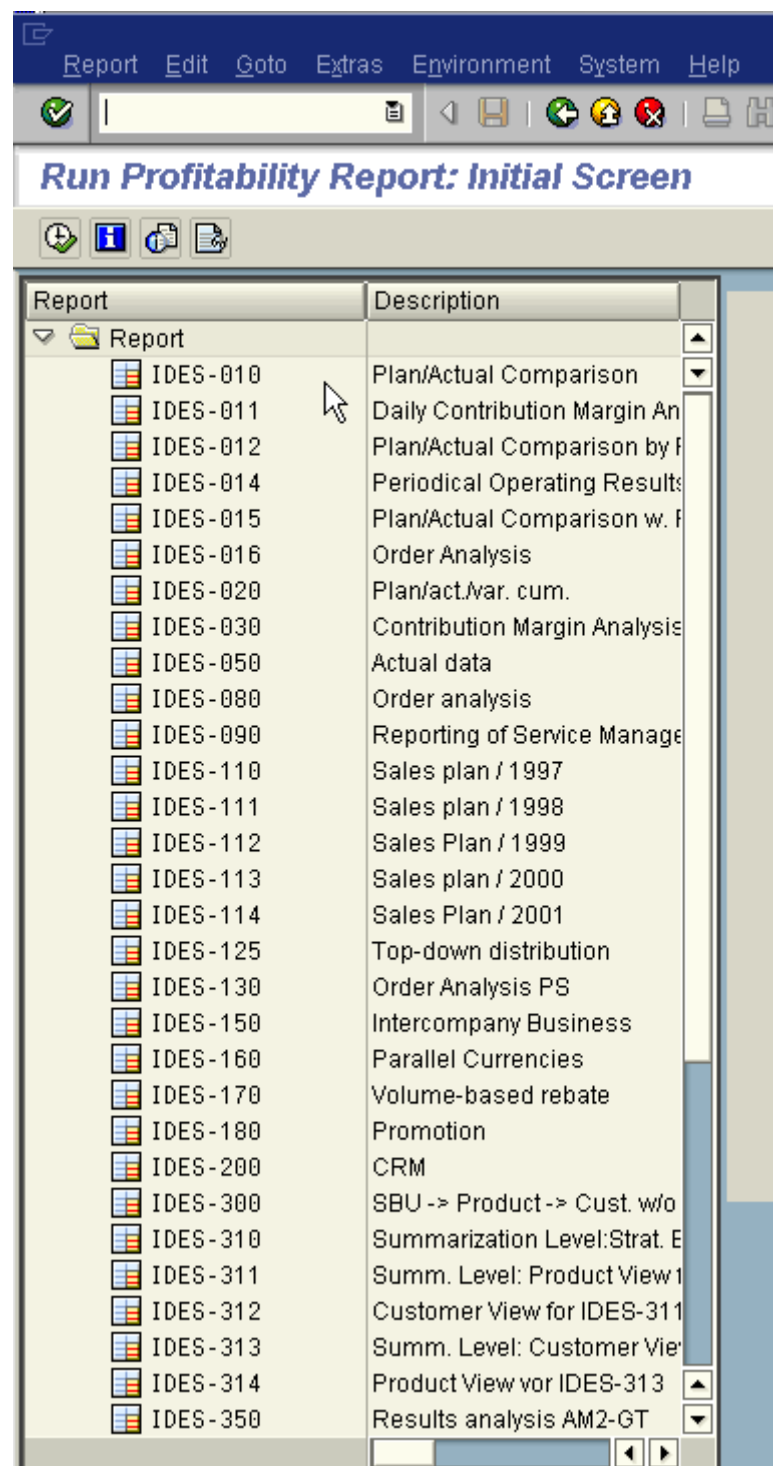


Diagram 7: Initial screen of transaction /PBS/KE30.

In this screen you can select a report for the execution as it is the case in the SAP transaction KE30.

The dynpros displayed are also identical with the SAP standard. In our example an actual data report is displayed according to division, customer and article (Diagram 8 to Diagram 10).

Selection: Actual data

Report selections

Sales org.	0001	Sales Org. Germany
Period from	001.1996	January 1996
Period to	003.1996	March 1996
Plan/act.ind.	0	Actual data
Version		
Record type	F	Billing data

Diagram 8: Selection screen of the report

Execute Drilldown Report "Actual data": Drilldown List

Actual data Current data (03.12.2002 11:44:29)

Sales org. 0001 Sales Org. Germany

Navigation:

Customer

Product

Division	Sales qty 1 *	Gross Revn 1 EUR	Total COGM 1 EUR	CM I 1 EUR
Displayed in				
v01 Pumps	50	148.147	17.415	123.384
v04 Lighting	5	59.980	10.170	48.184
v05 Foods	5	15	4	10
v06 Elevators	0	51.129	0	51.129
v07 High Tech	4.943	4.450.933	12.094	4.388.777
Result	5.003	4.710.204	39.683	4.611.484

Diagram 9: Display according to division

If you mark an area in the report which was created by actual data and then select the menu options "Go to -> line item", you can branch off to transaction /PBS/KE24 and all actual line items belonging to that area are displayed. In an area of plan data you can branch off to transaction /PBS/KE25 (Diagram 10).

Display Actual Line Items: List

Standard layout | Master data | Profitability segment | FI/CO documents...

Currency type: B0
 Period/year: 001.1996 003.1996
 Plan/act.ind.: 0
 Division: 01
 Sales org.: 0001
 Record type: F
 Number of line items: 13
 Mode of access: Read acc. to current structure
 Op. concern currency: EUR

Curr.	C...	...	Period	Doc. no.	Item no.	Created on	Ref.doc.no	Rf.itm	Created by	CoCd	Sender Cctr	Cost element	Curr.	A
EUR	B0	F	001.1996	100000775		22.03.1996			KRAUSST	1000				*
EUR	B0	F	002.1996	100000017		14.02.1996	90000901	000010	CURA	1000			DEM	*
EUR	B0	F	002.1996	100000448		08.03.1996	90000926	000010	CURA	1000			DEM	*
EUR	B0	F	002.1996	100000449		08.03.1996	90000927	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000335		05.03.1996	90000917	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000336		05.03.1996	90000918	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000337		05.03.1996	90000919	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000338		07.03.1996	90000920	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000339		07.03.1996	90000921	000020	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000556		12.03.1996	90000939	000010	HAUSERM	1000			DEM	*
EUR	B0	F	003.1996	100000558		14.03.1996	90000942	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100000559		15.03.1996	90000943	000010	CURA	1000			DEM	*
EUR	B0	F	003.1996	100001336		28.03.1996	90001408	000010	MONCHANIN	1000			DEM	*

Diagram 10: Actual line items for division '01'